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NOTICE OF ALLOWANCE AND FEE(S) DUE

5514

7590

09/02/2003

FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112 RODEE, CHRISTOPHER D

ART UNIT CLASS-SUBCLASS

1756

430-111330

DATE MAILED: 09/02/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/081 844	02/25/2002	Kenii Okado	00684.003336	3763

TITLE OF INVENTION: REPLENISHING DEVELOPER AND DEVELOPING METHOD

8

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$300	\$1600	12/02/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents Alexandria, Virginia 22313-1450 or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

APPLICATION NO.

10/081,844

5514

7590

09/02/2003

FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

· Sta add	reby certify that this Fee(s) I ransmittal is bein ese Postal Service with sufficient postage for fir ressed to the Mail Stop ISSUE FEE address ismitted to the USPTO, on the date indicated bel	st class mail in an envelope above, or being facsimile
		(Depositor's name)
		(Signature)
		(Date)
FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
Kenji Okado	00684.003336	3763

TITLE OF INVENTION: REPLENISHING DEVELOPER AND DEVELOPING METHOD

FILING DATE

02/25/2002

						 	
APPLN. TYPE SMALL ENTITY		<u> </u>	ISSUE FEE		TOTAL FEE(S) DUE	DATE DUE	
nonprovisional NO EXAMINER		\$1300	\$1300 \$300		\$1600	12/02/2003	
		ART UNIT		CLASS-SUBCLASS	\neg	•	
RODEE, CH	RISTOPHER D	1756		430-111330	<u> </u>		
1. Change of correspondent CFR 1.363). Change of correspond Address form PTO/SB/1 "Fee Address" indicat PTO/SB/47; Rev 03-02 Number is required.	Correspondence	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
	D RESIDENCE DATA TO B		-				
PLEASE NOTE: Unless been previously submitte (A) NAME OF ASSIGN	ed to the USPTO or is being:	submitted under sej	parate cover. Con	n the patent. Inclusion ipletion of this form is CITY and STATE OF	of assignee data is only appropria NOT a substitute for filing an assi CCOUNTRY)	te when an assignment has gnment.	
	e assignee category or categor				Corporation or other private gra	oup entity	
4a. The following fee(s) are	e enclosed:	46	. Payment of Fee	. ,			
☐ Issue Fee				amount of the fee(s)			
☐ Publication Fee			☐ Payment by credit card. Form PTO-2038 is attached.				
□ Advance Order - # of	Copies		☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
Director for Patents is reque	ested to apply the Issue Fee a	nd Publication Fee	(if any) or to re-a	pply any previously p	paid issue fee to the application iden	ntified above.	
(Authorized Signature)		(Date)					
other than the applicant; interest as shown by the reaching of	and Publication Fee (if require a registered attorney or age ecords of the United States Pation is required by 37 CFR by the public which is to five its governed by 35 U.S.C. Interest to complete, including gram to the USPTO. Time with the amount of time you this burden, should be sent Office, U.S. Department SEND FEES OR COMPLE	ent; or the assigned tent and Trademar I.311. The informile (and by the US 122 and 37 CFR 1.1 athering, preparing III vary depending require to complet to the Chief Informile Commerce, ATTED FORMS TO	ee or other parfy k Office. nation is required PTO to process) 14. This collection t, and submitting upon the individuate this form and mation Officer. I	to an an an an the			

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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/081,844 02/25/2002		02/25/2002	Kenji Okado	00684.003336	3763
5514 7590 09/02/2003 FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112		09/02/2003		EXAM	INER
		INTO	RODEE, CHRI	RODEE, CHRISTOPHER D	
		ZA		ART UNIT	PAPER NUMBER
			1756		
·			DATE MAILED: 09/02/2003		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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10/081,844	02/25/2002 7590 09/02/2003		Kenji Okado	00684.003336	3763	
5514				EXAM	EXAMINER	
FITZPATRIC	K CELLA	HARPER &	SCINTO	RODEE, CHRISTOPHER D		
30 ROCKEFELLER PLAZA NEW YORK, NY 10112			ART UNIT	PAPER NUMBER		
,			1756			
			DATE MAILED: 09/02/200	3		

Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent.

(u) issue ite it issuing each original or it	,
except a design or plant patent:	
By a small entity (Sec. 1.27(a))	\$665.00
By other than a small entity	\$1,330.00
(b) Issue fee for issuing a design patent:	
By a small entity (Sec. 1.27(a))	\$240.00
By other than a small entity	
(c) Issue fee for issuing a plant patent:	
By a small entity (Sec. 1.27(a))	\$320.00

By other than a small entity......\$640.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

				#18/C"
•	Application	No.	Applicant(s)	7707
	10/091 9//		OKADO ET AL.	·
Notice of Allowability	10/081,844 Examiner		Art Unit	1
			1750	
	Christopher I	D RoDee	1756	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) or other appro IGHTS. This a B and MPEP 13	S) CLOSED in this ap priate communicatio pplication is subject t 808.	pplication. If not includ n will be mailed in due	ded e course, THIS
1. This communication is responsive to <u>amendment of 7/25/0</u>	03 and intervieu	<u>w of 8/25/03</u> .		
2. The allowed claim(s) is/are <u>1-13,16-22 and 25-27.</u>	ha F.,,,,,,			
 The drawings filed on <u>25 February 2002</u> are accepted by t Acknowledgment is made of a claim for foreign priority und 	** **			
a) ☑ All b) ☐ Some* c) ☐ None of the:	1ei 33 0.3.0. §	3 1 19(a)-(u) 01 (1).		
 Certified copies of the priority documents have 	e been received	d.		
Certified copies of the priority documents have		• •	•	
 3. Copies of the certified copies of the priority do 	cuments have	been received in this	national stage applic	ation from the
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
5. Acknowledgment is made of a claim for domestic priority u			sional application).	
(a) ☐ The translation of the foreign language provisional a	• •			alprod.
6. Acknowledgment is made of a claim for domestic priority u	nder 35 U.S.C.	. §§ 120 and/or 121.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of				
7. A SUBSTITUTE OATH OR DECLARATION must be submINFORMAL PATENT APPLICATION (PTO-152) which gives reas				NOTICE OF
 8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No (b) including changes required by the proposed drawing or 			,	Examiner.
(c) ☐ including changes required by the attached Examiner	's Amendment	/ Comment or in the	Office action of Paper	r No
Identifying indicia such as the application number (see 37 CFR 1 each sheet.	.84(c)) should b	e written on the drawi	ngs in the front (not th	e back) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T 				Note the
Attachment(s)				
 1⊠ Notice of References Cited (PTO-892) 3□ Notice of Draftperson's Patent Drawing Review (PTO-948) 5□ Information Disclosure Statements (PTO-1449), Paper No 7□ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	.	4⊠ Interview Summ 6⊠ Examiner's Ame	nal Patent Application nary (PTO-413), Pape endment/Comment ement of Reasons for	r No. <u>8</u> .

Application/Control Number: 10/081,844

Art Unit: 1756

EXAMINER'S AMENDMENT

Claims 1-13 and 16-22 are directed to an allowable product in view of the enclosed Examiner's Amendment. Pursuant to the procedures set forth in the Official Gazette notice dated March 26, 1996 (1184 O.G. 86), claims 25-27, directed to the process of making or using the patentable product, previously withdrawn from consideration as a result of a restriction requirement, claims 25-27 are now subject to being rejoined. Claims 25-27 are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Since all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement made in Paper No. 6 is hereby withdrawn.

Claims 25-27 are allowed in view of the enclosed Examiner's Amendment.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Peter Saxon on 25 August 2003.

The application has been amended as follows:

In claim 1, last line, change "of" to -- based on --.

In claim 16, lines 2 and 5, change "magnetite" to -- magnetic --, in line 4, change "of" to -- based on --, and in line 5, change "of" (l'ast occurrence) to -- based on --.

In claim 17, lines 2 and 3, change "magnetite" to -- magnetic --, and in line 3, change "of" (last occurrence) to -- based on --.

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In claim 25, line 3, after "while" in sert -- periodically -- and in the same line delete "as required", and in the last line, change "of" to -- based on --.

Amend claim 27 as follows:

A developing method [according to claim 25] comprising:

developing an electrostatic latent image on an image-bearing member with a two-component

developer comprising a toner and carrier stored in a develop vessel, while periodically supplying

[as required] a replenishing developer to the developer vessel using as the replenishing

developer a replenishing developer according to any one of claims 2-18 or 16-22.

The following is an examiner's statement of reasons for allowance: The art of record does not provide sufficient motivation to produce a replenishing developer having the claimed carrier and toner in the specified proportions. The previously applied Sakemi and Klimley references generally disclose proportions of carrier and developer but do not disclose the claimed toner and carrier compositions. Yoshizaki discloses a developer having a toner as claimed, but does not disclose a carrier having the claimed amounts of Mg, Si, Mn, and/or P present in the claimed carrier in the developer. Newly cited Tokunaga *et al.* in US Patent 5,885,740 discloses a dispersed magnetic particle resin carrier having 0.1 to 5.0 wt% of each of P and Al and optionally up to 5.0 wt % Si., all based on Fe in magnetite particles. However, this reference does not disclose a toner for use with the carrier and does not disclose that the proportions of carrier to toner specified in the instant claims. Further, this reference does not disclosed as meeting the water absorption characteristics and surface area characteristics specified in Yoshizaki, and, as a result, is not seen as substitutable in Yoshizaki.

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Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the

issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons

for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Christopher D RoDee whose telephone number is 703 308-2465. The

examiner can normally be reached on most weekdays from 6 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mark Huff can be reached on 703 308-2464. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703 308-0661.

cdr

25 August 2003

CHRISTOPHER RODEE
PRIMARY EXAMINER